Notice of Allowability	Application No.	Applicant(s)
	10/614,000	YAMAZAKI ET AL.
	Examiner	Art Unit
	Bryce P. Bonzo	2113
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the application as filed.		
2. The allowed claim(s) is/are 1-11.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority un</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") musical including changes required by the Notice of Draftsperson.</li> <li>(a) including changes required by the Notice of Draftsperson.</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the</li> </ol>	on's Patent Drawing Review Amendment / Comment or 84(c)) should be written on the header according to 37 CF	in the Office action of ne drawings in the front (not the back) of R 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	6. ☐ Interview Si Paper No./ 8), 7. ☐ Examiner's	formal Patent Application (PTO-152)  ummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance
•		BRYCEP BONZO PRIMARY EXAMINER

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Reasons for Allowance

The following is an examiner's statement of reasons for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance." The matter which when viewed in light of the remainder of the claim over comes the prior art, is italicized below. Applicant is reminded any modifications to the claims now that prosecution has closed may jeopardize this indication of allowable matter.

## As per claims 1-5:

A *lock-step synchronism fault-tolerant computer system* including a plurality of computing modules having a processor and a memory in which each computing module processes the same instruction string in synchronization with each other, wherein:

when detecting disagreement in a state of access to an external bus among respective said processors in each said computing module, *if no fault is detected* in the system including each said computing module, synchronization among each said computing module is recovered by *adjusting timing of a response to an access which* each said processor executes as a synchronization control instruction by an *interruption*.

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As per claim 6-8:

A re-synchronization method in a lock-step synchronism fault-tolerant computer system including a plurality of computing modules having a processor and a memory in which each computing module processes the same instruction string in synchronization with each other, comprising the steps of:

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when detecting disagreement in a state of access to an external bus among respective said processors in each said computing module, *if no fault is detected* in the system including each said computing module, generating an interruption to all of said processors, and

causing each said processor to execute a synchronization control instruction to adjust timing of a response to an access from each processor, thereby causing each computing module to resume operation in synchronization.

As per claim 9-11:

A re-synchronization program for executing resynchronization processing of a lock-step synchronism fault-tolerant computer system including a plurality of computing modules having a processor and a memory in which each computing module processes the same instruction string in synchronization with each other, comprising the functions of:

when detecting disagreement in a state of access to an external bus among respective said processors in each said computing module, if no fault is detected in the system including each said computing module, generating an interruption to all of said processors, and

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causing each said processor to execute a clock synchronization control instruction to adjust timing of a response to an access from each processor, thereby causing each computing module to resume operation in synchronization.